

Title (en)

Active hedgehog protein conjugate, process for its production and use

Title (de)

Aktives Hedgehog-Protein-Konjugat, Verfahren zur Herstellung und Verwendung

Title (fr)

Conjugué de protéine hedgehog active, procédé pour sa production et utilisation

Publication

EP 0953575 A1 19991103 (DE)

Application

EP 98107911 A 19980430

Priority

EP 98107911 A 19980430

Abstract (en)

A conjugate (A) is new and comprises: (i) a polypeptide (I) of 10-30 hydrophobic amino acids aa and/or aa which form transmembrane helices and are positively charged; (ii) 1-4 aliphatic, saturated or unsaturated 10-24C hydrocarbyl chains (HC) having a hydrophobic effect; or (iii) a hydrophobic thio compound (II) covalently bound to a hedgehog protein (III). An Independent claim is also included for the method of preparation of (A).

Abstract (de)

Ein Hedgehog-Konjugat, dadurch gekennzeichnet, daß es kovalent gebunden enthält: a) ein Polypeptid bestehend aus 10 bis 30 hydrophoben Aminosäuren und/oder Aminosäuren, welche Transmembranhelices bilden und positiv geladen sind, b) 1 bis 4 aliphatische, gesättigte oder ungesättigte Kohlenwasserstoffreste mit einer Kettenlänge von 10 bis 24 C-Atomen und mit einer hydrophoben Wirkung, oder c) eine hydrophobe Thioverbindung, zeigt eine um ein Vielfaches erhöhte Aktivität und ist als pharmazeutisches Mittel geeignet. <IMAGE>

IPC 1-7

C07K 14/47

IPC 8 full level

C07K 14/47 (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)

A61P 19/04 (2017.12); **C07K 14/47** (2013.01); **A61K 38/00** (2013.01)

Citation (search report)

- [A] WO 9518856 A1 19950713 - HARVARD COLLEGE [US], et al
- [E] WO 9830576 A1 19980716 - UNIV JOHNS HOPKINS MED [US], et al
- [A] HAMMERSCHMIDT M ET AL: "The world according to hedgehog", TRENDS IN GENETICS, vol. 13, no. 1, January 1997 (1997-01-01), pages 14-21, XP004015059
- [A] PORTER ET AL.: "Cholesterol modification of hedgehog signaling proteins in animal development", SCIENCE, vol. 274, 11 October 1996 (1996-10-11), pages 255 - 259, XP002082038
- [A] PORTER ET AL.: "Hedgehog patterning activity: Role of a lipophilic modification mediated by the carboxy-terminal autoprocessing domain", CELL, vol. 86, 12 June 1996 (1996-06-12), pages 21 - 34, XP002082039
- [A] FARESE R V ET AL: "Cholesterol metabolism and embryogenesis", TRENDS IN GENETICS, vol. 14, no. 3, March 1998 (1998-03-01), pages 115 - 120, XP004108610
- [DA] HANCOCK ET AL.: "A polybasic domain or palmitoylation is required in the addition to the CAAX motif to localize p21ras to the plasma membrane", CELL, vol. 63, 5 October 1990 (1990-10-05), pages 133 - 139, XP002079834
- [A] MOHLER ET AL.: "Molecular organization and embryonic expression of the hedgehog gene involved in cell-cell communication in segmental patterning of Drosophila", DEVELOPMENT, vol. 115, 1992, pages 957 - 971, XP002082040

Cited by

EP0978285A1; WO0035948A1; US6207718B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0953575 A1 19991103; AR 020069 A1 20020410; BR 9903169 A 20001017; CO 4970771 A1 20001107; HR P990124 A2 20000229; ID 22561 A 19991104; PE 20000448 A1 20000525; PL 332894 A1 19991108; TR 199900933 A2 19991122; ZA 993009 B 19991101

DOCDB simple family (application)

EP 98107911 A 19980430; AR P990101977 A 19990428; BR 9903169 A 19990430; CO 99024954 A 19990426; HR P990124 A 19990428; ID 990403 A 19990429; PE 00034299 A 19990426; PL 33289499 A 19990430; TR 9900933 A 19990429; ZA 993009 A 19990429